

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
ASMMC.033AUSAPPLICATION NO.
10/007,304INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Kim et al.FILING DATE
December 5, 2001GROUP
2812

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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPROPRIATE) |
|---------------------|---|-----------------|----------|-------------|-------|----------|---------------------------------|
| SN | 1 | 5,892,254 | 04/06/99 | Park et al. | | | |
| SL | 2 | 6,126,806 | 10/03/00 | Uzoh | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|---------------------|---|-----------------|----------|--------------------------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| SL | 3 | WO 00/75964 A2 | 12/14/00 | PCT | | | | |
| SL | 4 | 63299250 | 12/06/88 | Japanese Patent Abstract | | | X | |
| SL | 5 | 11111919 | 04/23/99 | Japanese Patent Abstract | | | X | |

| EXAMINER INITIAL | OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) | |
|---------------------|--|---|
| SL | 6 | Gong et al., "Interdiffusion and reaction in the Cu/TiN/Si thin film system," Applied Surface Science, Vol. 92, pp. 335-339, (Dec. 1994) |
| SL | 7 | Rha et al., "Improved TiN film as a diffusion barrier between copper and silicon," Thin Solid Films, Vol. 320, pp. 134-140, (May 4, 1998) |

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EXAMINER

DATE CONSIDERED

7/30/03

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APPLICATION NO.
10/007,304

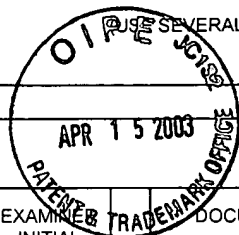
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